

**Amendments to the Claims:**

1. (Canceled)

2. (Currently Amended) ~~The method of Claim 1~~ In an asymmetrical digital subscriber line (ADSL) system used between a telecommunications network and a customer's premises, the ADSL system being available to provide voice service and data service to the customer's premises, one service as between the voice service or the data service being in use with respect to the customer's premises, a method to provide a choice of a selected mode of operation of the other service, the method comprising the steps of:

- A. causing the ADSL system to detect a request for the other service;
- B. causing the ADSL system to provide a list of modes of operation;
- C. causing the ADSL system to detect receipt of a selected mode from the list; and
- D. causing the ADSL system to provide the other service to the customer's premises pursuant to the selected mode;

wherein after Step A and in response to the request for the other service, the method further comprising the step of causing the ADSL system to provide impact information on performance of the one service in light of concurrent use of the other service.

3. (Currently Amended) ~~The method of Claim 1~~ In an asymmetrical digital subscriber line (ADSL) system used between a telecommunications network and a customer's premises, the ADSL system being available to provide voice service and data service to the customer's premises, one service as between the voice service or the data service being in use with respect to the customer's premises, a method to provide a choice of a selected mode of operation of the other service, the method comprising the steps of:

- A. causing the ADSL system to detect a request for the other service;
- B. causing the ADSL system to provide a list of modes of operation;

- C. causing the ADSL system to detect receipt of a selected mode from the list; and
- D. causing the ADSL system to provide the other service to the customer's premises pursuant to the selected mode;

wherein after Step A and in response to the request for the other service, the method further comprising the step of causing the ADSL system to provide impact information or effect of the one service on the other service when the other service is used concurrently with the one service.

4. (Currently Amended) The method of Claim ~~[[1]]~~ 2, wherein the available modes of operation comprise a lower power mode or a full power mode; and wherein step B comprises causing the ADSL system to provide the list of available modes of operation by providing the low power mode and the full power mode.

5. (Currently Amended) The method of Claim ~~[[1]]~~ 2, wherein the available modes of operation comprise a wait mode; and wherein step B comprises causing the ADSL system to provide the list of available modes of operation by providing the wait mode.

6-30 (Canceled)

31. (Currently Amended) ~~The method of Claim 30~~ In an asymmetrical digital subscriber line (ADLS) system connected to a telecommunications device, a method to operate a data service of the ADSL system pursuant to a selected mode of operation of the data service, the method comprising:

causing the ADSL system to detect a voice service in use with respect to the telecommunications device;

causing the ADSL system to provide an indication of voice service detection to a computer;

causing the computer to display a list of modes of operation;  
receiving at the computer a selection of a mode from the list;  
causing the computer to instruct the ADSL system to operate the data service pursuant to  
the selected mode; and  
causing the ADSL system to operate the data service pursuant to the selected mode of  
operation;

wherein causing the computer to display a list of modes of operation comprises causing the computer to provide [[the]] impact information on performance of the data service in light of concurrent use of the voice service including an effect of the data service on the voice service when the voice service is used concurrently with the data service.

32. (Currently Amended) The method of Claim [[28]] 31, wherein the list of modes of operation comprises a full power mode and a low power mode; and

wherein causing the computer to display a list of modes of operation comprises displaying the full power mode and the lower power mode in the list of modes of operation.

33. (Currently Amended) ~~The method of Claim 28~~ In an asymmetrical digital subscriber line (ADLS) system connected to a telecommunications device, a method to operate a data service of the ADSL system pursuant to a selected mode of operation of the data service, the method comprising:

causing the ADSL system to detect a voice service in use with respect to the telecommunications device;

causing the ADSL system to provide an indication of voice service detection to a computer;

causing the computer to display a list of modes of operation;

receiving at the computer a selection of a mode from the list;

causing the computer to instruct the ADSL system to operate the data service pursuant to

the selected mode; and

causing the ADSL system to operate the data service pursuant to the selected mode of operation;

wherein the modes of operation comprise a wait mode; and

wherein causing the computer to display a list of modes of operation comprises displaying the wait mode in the list of modes of operation.

34. (Canceled)

35. (Previously Presented) In an asymmetrical digital subscriber line (ADSL) system connected to a computer and a telecommunications device, a method to provide impact information on performance of a data service in light of concurrent use of a voice service of the ADSL system, the method comprising:

causing the ADSL system to detect an off-hook indication with respect to the telecommunications device;

causing the ADSL system to provide a detection indication to the computer; and

causing the computer to provide impact information on performance of the data service in light of concurrent use of the voice service.

36. (Previously Presented) The method of Claim 35, wherein causing the computer to provide impact information on performance of the data service in light of concurrent use of the voice service comprises including the effect of the data service on the voice service when the voice service is used concurrently with the data service.

37. (Previously Presented) The method of Claim 35, further comprising:

causing the computer to display a list of modes of operation;

receiving a selected mode from the list;

causing the computer to instruct the ADSL system to operate the data service pursuant to the selected mode; and

causing the ADSL system to operate the data service pursuant to the selected mode of operation.

38. (Previously Presented) In a telecommunications network with a telecommunications device, a method to provide impact information on performance of one ADSL service as between a data service or a voice service in light of concurrent use of the other service, the method comprising:

causing a telecommunications network to detect an off-hook indication with respect to the telecommunications device;

causing the telecommunications network to determine the data service is in use; and

causing the telecommunications network to provide an announcement including impact information on performance of the one service in light of the concurrent use of the other service.

39. (Previously Presented) The method of Claim 38, wherein causing the telecommunications network to provide an announcement including impact information on performance of the one service in light of the concurrent use of the other service comprises providing an effect of the one service on the other service when the other service is used concurrently with the one service.

40. (Previously Presented) The method of Claim 38, further comprising:

causing the telecommunications network to announce a list of modes of operation of the data service to the telecommunications device;

receiving at the telecommunications network a selected mode;

causing the telecommunications network to instruct the ADSL system to operate the data service pursuant to the selected mode; and

causing the ADSL system to operate the data service pursuant to the selected mode of operation.

41. (Canceled.)

42. (Currently Amended) ~~The system of Claim 41~~ In a telecommunications network, and particularly in an asymmetrical digital subscriber line (ADSL) system connected to a telecommunications device and a computer, a system to provide a choice of a selected mode of operation between one service and another service, the system comprising:

the ADSL system being operative to detect a request for the other service and to provide the detection to the computer;

the computer being operative

to display a list of modes of operation,

to receive a selected mode from the list, and

to instruct the ADSL system to operate the other service pursuant to the selected mode of operation; and

the ADSL system being further operative to operate the other service pursuant to the selected mode of operation;

wherein the computer is further operative to provide impact information on performance of the one service in light of concurrent use of the other service.

43. (Previously Presented) The system of Claim 42, wherein the computer is also operative to provide impact information including an effect of the one service on the other service when the other service is used concurrently with the one service.

44. (Previously Presented) In an asymmetrical digital subscriber line (ADSL) system connected to a telecommunications network, a computer, and a telecommunications device, a

system to provide impact information on performance of one service as between a data service or a voice service in light of concurrent use of the other service, the system comprising:

a switch in the telecommunications network being operative

to detect an off-hook indication with respect to the telecommunications device,

to communicate with the ADSL system to determine that the data service is in use,

and

to send a message to an intelligent peripheral in the telecommunications network regarding the off-hook indication; and

the intelligent peripheral being operative

to respond to the message from the switch by providing an announcement to the telecommunications device including impact information on performance of the one service in light of concurrent use of the other service.

45. (Previously Presented) The system of claim 44, wherein the impact information comprises an effect of the one service on the other service when the other service is used concurrently with the one service.

46. (Previously Presented) The system of claim 44, wherein the announcement comprises a list of modes of operation of the data service;

wherein the intelligent peripheral is further operative to receive a selected mode and to instruct the ADSL system to operate the data service pursuant to the selected mode.

47. (Previously Presented) The system of claim 44, wherein the impact information comprises data on degradation of low power mode of the data service in light of the concurrent use of the voice service.

48. (Previously Presented) The system of claim 44, wherein the impact information

comprises data on degradation of low power mode of the data service in light of the concurrent use of the voice service.

49. (Previously Presented) The system of claim 44, wherein the impact information comprises an effect of the full power mode of the data service on the voice service including detecting an amount of noise.

50. (Previously Presented) The system of claim 49, wherein the amount of noise is precalculated in real time.

51. (Previously Presented) The system of claim 49, wherein the amount of noise is measured in real time.

52. (Previously Presented) The system of claim 44, wherein the message to the intelligent peripheral in the telecommunications network regarding the off-hook indication comprises determination that the data service is in use.

53. (Previously Presented) The system of claim 44, wherein the message from the switch comprises whether the data service is in use.

54. (Previously Presented) The system of claim 44, wherein the message from the switch comprises the effect of the one service on the other service when the other service is used concurrently with the one service.

55. (Previously Presented) The system of claim 44, wherein the message from the switch comprises a list of modes of the data service.



56. (Previously Presented) The system of claim 55, wherein the list of modes comprises at least one of the following: a full power mode, a low power mode, a rescind mode, or a wait mode.

57. (Previously Presented) The system of claim 55, wherein the switch is further operative for:

- receiving a selected mode;
- transmitting the selected mode to the intelligent peripheral; and
- instructing the ADSL system to operate the data service pursuant to the selected mode.

58. (Previously Presented) The system of claim 57, wherein the ADSL system operates the data service pursuant to the selected mode.

59. (Previously Presented) In a telecommunications network configured to support an asymmetrical digital subscriber line (ADSL) system, the ADSL system being available to provide voice service and data service through a telecommunications device, a method to intelligently manage the operation of either the voice service or the data service, the method comprising:

- detecting an off-hook indication with respect to a telecommunications device;
- communicating with the ADSL system to determine whether either service is in use;
- sending a message regarding the off-hook indication to an intelligent peripheral in the telecommunications network;
- receiving a response to the message from the intelligent peripheral; and
- providing an announcement including impact information on performance of one service in light of the concurrent use of the other service to the telecommunications device.

60. (Canceled.)

61. (New) The method of claim 3, wherein the available modes of operation comprise a low power mode or a full power mode; and wherein step B comprises causing the ADSL system to provide the list of available modes of operation by providing the low power mode and the full power mode.

62. (New) The method of claim 3, wherein the available modes of operation comprise a wait mode; and wherein step B comprises causing the ADSL system to provide the list of available modes of operation by providing the wait mode.